

RESEARCH DEPARTMENT

BALLYCASTLE V.H.F. RELAY STATION: SUMMARY OF INSTALLATION

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for Head of Research Department

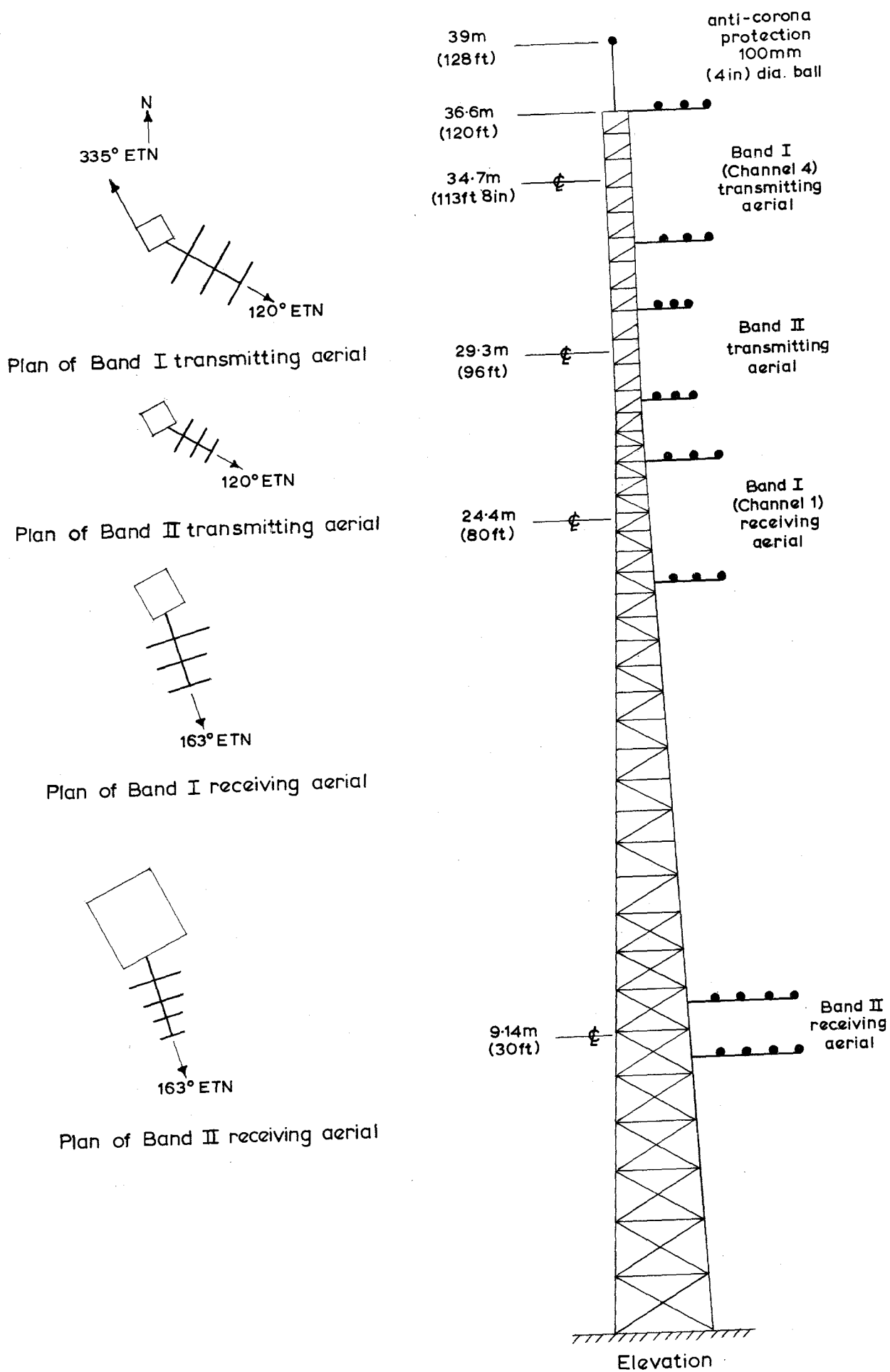


Fig.1. General arrangement of airtials on tower.

V.H.F. RELAY STATIONS : SUMMARY OF INSTALLATION  
TELEVISION

NAME: **BALLYCASTLE**

SERVICE TRANSMISSIONS COMMENCED: **12th December 1966**

SITE DATA

LOCATION: **Approximately 3.8 km (2.4 miles)**  
**west-north-west of Ballycastle**

GRID REFERENCE: **D 077423**

HEIGHT, A.O.D.: **150 m (492 ft)**

TRANSMITTING AERIAL

DESCRIPTION: **Single three-element**  
**Yagi per tier**

NUMBER OF TIERS: **2**

MEAN HEIGHT: **34.7 m (113 ft 8 in) a.g.l.**

SUPPORT STRUCTURE

TYPE: **Self-supporting tower**

OVERALL HEIGHT: **36.6 m (120 ft)**

FEEDERS

TRANSMITTING: **PT98**

GENERAL ARRANGEMENT

FIGURE: **1**

RADIATION CHARACTERISTICS

POLARIZATION: **Horizontal**

MEAN E.R.P.: **9.1W**

FREQUENCIES

BAND: **I**

CHANNEL: **4**

VISION CARRIER OFFSET: **-16.875 kHz**

SOUND CARRIER OFFSET: **-16.875 kHz**

MAXIMUM E.R.P.: **46W**

H.R.P.: **Fig.2**

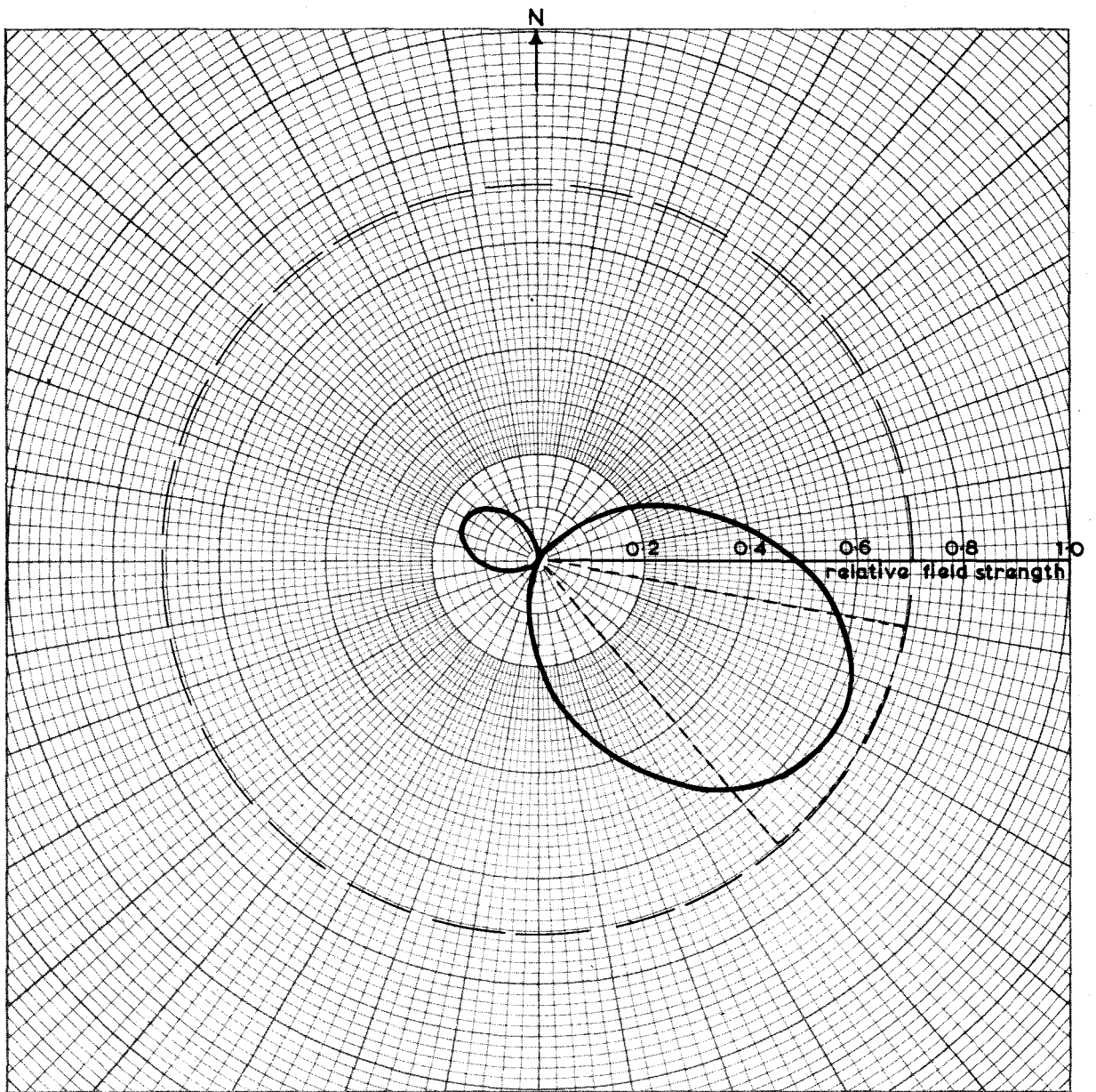
TRANSMITTER

POWER: **10 watts (translator)**

PROGRAMME SOURCE

PARENT: **Divis**  
**obtained by direct reception**

NOTES:



**Fig.3. Band II templet and horizontal radiation pattern**

————— Maximum permissible E.R.P.

----- Minimum desirable E.R.P.

Unit field corresponds to an E.R.P. of 100W